

ABSTRACT

A continuously variable transmission (CVT) is suitable for replacement of a main transmission box of a compound transmission in a light to medium duty electromechanically actuated truck transmission system. For example, one line-haul truck transmission consists of a five-speed main section and an auxiliary deep reduction box to provide 15 forward speed ratios. The replacement of the five-speed main section with a CVT unit enhances the overall operating efficiency of the system. In one form, the CVT includes a pair of rotatable countershafts mounted to pivot relative to one another. Each of countershafts has a greater diameter disk at one end than the other. Positioned between countershafts are a pair of laterally spaced cones that share a common axis; the greater diameter disk ends of the two countershafts bear against one of the intermediately positioned cones, while smaller diameter disk ends of the countershafts bear against the second cone.

CO002818.DOC